Amendments to the Claims:

This listing of Claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-16 (Canceled).

17. (Currently Amended) A method for sending an Internet Protocol (IP)-based data packet across a radio link, said method comprising the steps of:

compressing a packet header in the IP-based data packet, where said compressed packet header contains information related to changed values within an IP identification header field, a Real-Time-Transport Protocol (RTP) sequence number field and a RTP time stamp field when compared to values in a packet header associated with a previous IP-based data packet;

compressing said compressed packet header again such that said further compressed packet header does not contain any information at all related to the IP identification header field, the RTP sequence number field and the RTP time stamp field, wherein said second compressing step further includes:

adjusting an IP identification of said IP identification header field to conform to a stream-sequential identification format if said IP identification conforms to a random format or a host-sequential format; and

synchronizing said IP-based data packet to a radio frame based on a time stamp within said RTP time stamp header field and a timing of said radio frame; and

transmitting said IP-based data packet that has said further compressed packet header across the radio link.

18. (Previously Presented) The method of Claim 17, wherein said first step of compressing is done in accordance with a Robust Checksum-Based Header Compression (ROCCO) technique.

Claim 19. (Cancelled)

20. (Previously Presented)   The method of Claim 17, further comprising the
steps of:

receiving said transmitted IP-based data packet; and

decompressing said received IP-based data packet to reconstruct the packet
header by adding values in the IP identification header field, the RTP sequence number
field and the RTP time stamp field.

21.   (Previously Presented) The method of Claim 20, wherein said step of
decompressing further includes:

assigning a sequence number to said RTP sequence number header field;

reconstructing an IP identification of said IP identification header field using said
assigned sequence number; and

reconstructing a time stamp of said time stamp header field using a timing of said
radio frame.

22. (Currently Amended)   A transmitter, comprising:

a first compressor for compressing a packet header in an Internet Protocol (IP)-
based data packet, where said compressed packet header contains information related
to changed values within an IP identification header field, a Real-Time-Transport
Protocol (RTP) sequence number field and a RTP time stamp field when compared to
values in a packet header associated with a previous IP-based data packet;

a second compressor for compressing said compressed packet header again
such that said further compressed packet header does not contain any information at all
related to the IP identification header field, the RTP sequence number field and the RTP
time stamp field, wherein said second compressor includes:

an IP identification processor for adjusting an IP identification of
said IP identification header field to conform to a stream-sequential

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identification format if said IP identification conforms to a random format or
a host-sequential format; and

a radio frame synchronizer for synchronizing said IP-data packet to
a radio frame based on a time stamp within said RTP time stamp header
field and a timing of said radio frame; and

a transmitter for transmitting said IP-based data packet that has said further
compressed packet header across the radio link.

23. (Previously Presented)   The transmitter of Claim 22, wherein said first
compressor uses a Robust Checksum-Based Header Compression (ROCCO)
technique to compress the packet header in the IP-based data packet.

Claim 24. (Cancelled)

25. (Currently Amended)   A receiver, comprising:
a receiving unit for receiving an Internet Protocol (IP)-based data packet that has
a compressed packet header which does not contain any information at all related to an
IP identification header field, a Real-Time-Transport Protocol (RTP) sequence number
field and a RTP time stamp field; and

a decompressing unit for reconstructing the compressed packet header by
adding values in the IP identification header field, the RTP sequence number field and
the RTP time stamp field, wherein said decompressing unit further includes:

a local counter for assigning a sequence number within said RTP
sequence number header field;

an IP identification processor for reconstructing an IP identification
within said IP identification header field using said assigned sequence
number; and

an RTP time stamp processor for reconstructing a time stamp
within said RTP time stamp field using a timing of a radio frame in which
the IP-based data packet was received.

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Claim 26. (Canceled)